



**MIAMI-DADE COUNTY**  
**DEPARTMENT OF PERMITTING, ENVIRONMENT, AND REGULATORY**  
**AFFAIRS (PERA)**  
**BOARD AND CODE ADMINISTRATION DIVISION**  
**NOTICE OF ACCEPTANCE (NOA)**

**MIAMI-DADE COUNTY**  
**PRODUCT CONTROL SECTION**  
11805 SW 26 Street, Room 208  
Miami, Florida 33175-2474  
T (786) 315-2590 F (786) 315-2599  
[www.miamidade.gov/pera/](http://www.miamidade.gov/pera/)

**Arrow United Industries**  
**450 Riverside Drive**  
**Wyalusing, PA 18853**

**SCOPE:**

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County PERA - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. PERA reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

**DESCRIPTION: Model EA-32 6" Aluminum Louver System**

**APPROVAL DOCUMENT:** Drawing No. 35972-6, titled "EA-32 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision C1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren. W. Schaefer, P.E., bearing the Miami-Dade County Product Control revision stamp with the Notice of Acceptance number and expiration date by the Miami-Dade County Product Control Section.

**MISSILE IMPACT RATING: Large and Small Missile Impact Resistant**

**LABELING:** Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

**RENEWAL** of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

**TERMINATION** of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

**ADVERTISEMENT:** The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

**INSPECTION:** A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA revises NOA # 08-1030.02 and consists of this page 1 and evidence page E-1, as well as approval document mentioned above.

The submitted documentation was reviewed by Carlos M. Utrera, P.E.



*[Signature]*  
01/12/2012

**NOA No. 11-1117.06**  
**Expiration Date: July 27, 2013**  
**Approval Date: January 19, 2012**  
**Page 1**

**NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED**

**A. DRAWINGS**

1. Drawing No. **35972-6**, titled "EA-32 Test Louver, Architectural & Non-Architectural Louver", sheets 1 through 7 of 7, dated 06/16/2000, with revision C1, dated 11/08/2011, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by Warren W. Schaefer, P.E.

**B. TESTS *"Submitted under NOA No. 08-1030.02"***

1. Test reports on: 1) Uniform Static Air Pressure Test, Loading per FBC TAS 202-94  
2) Large Missile Impact Test per FBC, TAS 201-94  
3) Cyclic Wind Pressure Loading per FBC, TAS 203-94  
along with marked-up drawings and installation diagram, of "A.U.I. EA-22 Architectural & Non-Architectural Fixed Louver", prepared by Hurricane Test Laboratory, Inc., Report No. **0198-0811-08**, dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

**C. CALCULATIONS *"Submitted under NOA No. 08-1030.02"***

1. Revision calculations prepared by W.W. Schaefer Engineering & Consulting, P.A., dated 04/17/2008, signed and sealed by Warren W. Schaefer, P.E.  
  
*"Submitted under NOA No. 03-0611.01"*
2. Allowable Load Calculations, dated 11/10/1999, pages 1 to 3 of 3, prepared by W. W. Schaefer Engineering & Consulting, P.A., signed and sealed by W. W. Schaefer, P.E.
3. Allowable Load Calculations, dated 04/14/2000, pages 1 to 6 of 6, prepared by W. W. Schaefer Engineering & Consulting, P.A. signed and sealed by W. W. Schaefer, P.E.

**D. QUALITY ASSURANCE**

1. Miami-Dade Department of Permitting, Environment, and Regulatory Affairs (PERA)

**E. MATERIAL CERTIFICATIONS**

1. None.

**F. STATEMENTS**

1. Statement letter of code conformance to 2007 and 2010 FBC issued by W. W. Schaefer Engineering & Consulting, P.A., dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.
2. No financial interest letter issued by W. W. Schaefer Engineering & Consulting, P.A, dated 11/08/2011, signed and sealed by Warren W. Schaefer, P.E.  
  
*"Submitted under NOA No. 08-1030.02"*
3. Test compliance letter issued by Hurricane Test Laboratory, Inc., dated 09/17/2008, signed and sealed by Vinu J. Abraham, P.E.

  
01/12/2012

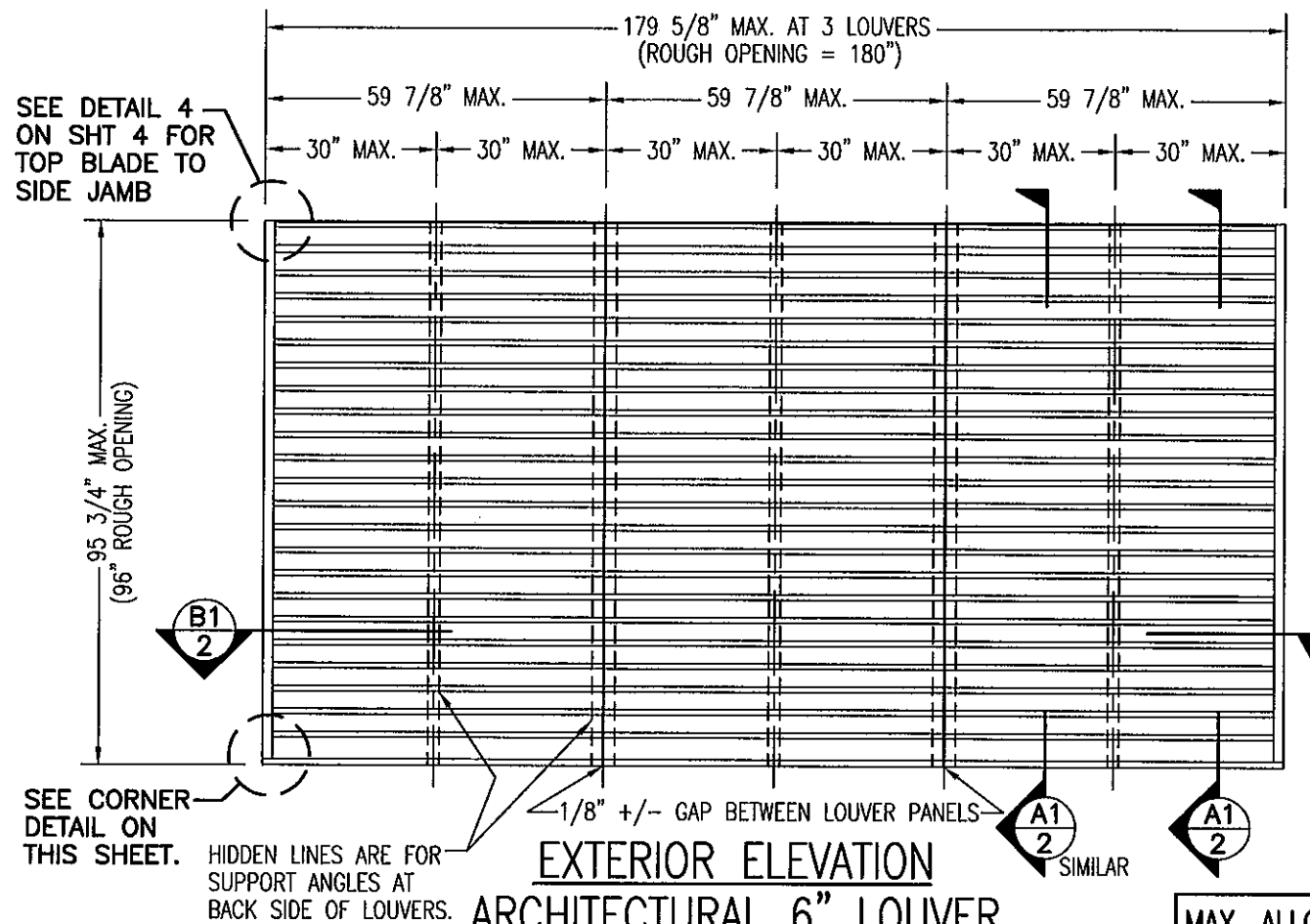
Carlos M. Utrera, P.E.

Product Control Examiner

NOA No. 11-1117.06

Expiration Date: July 27, 2013

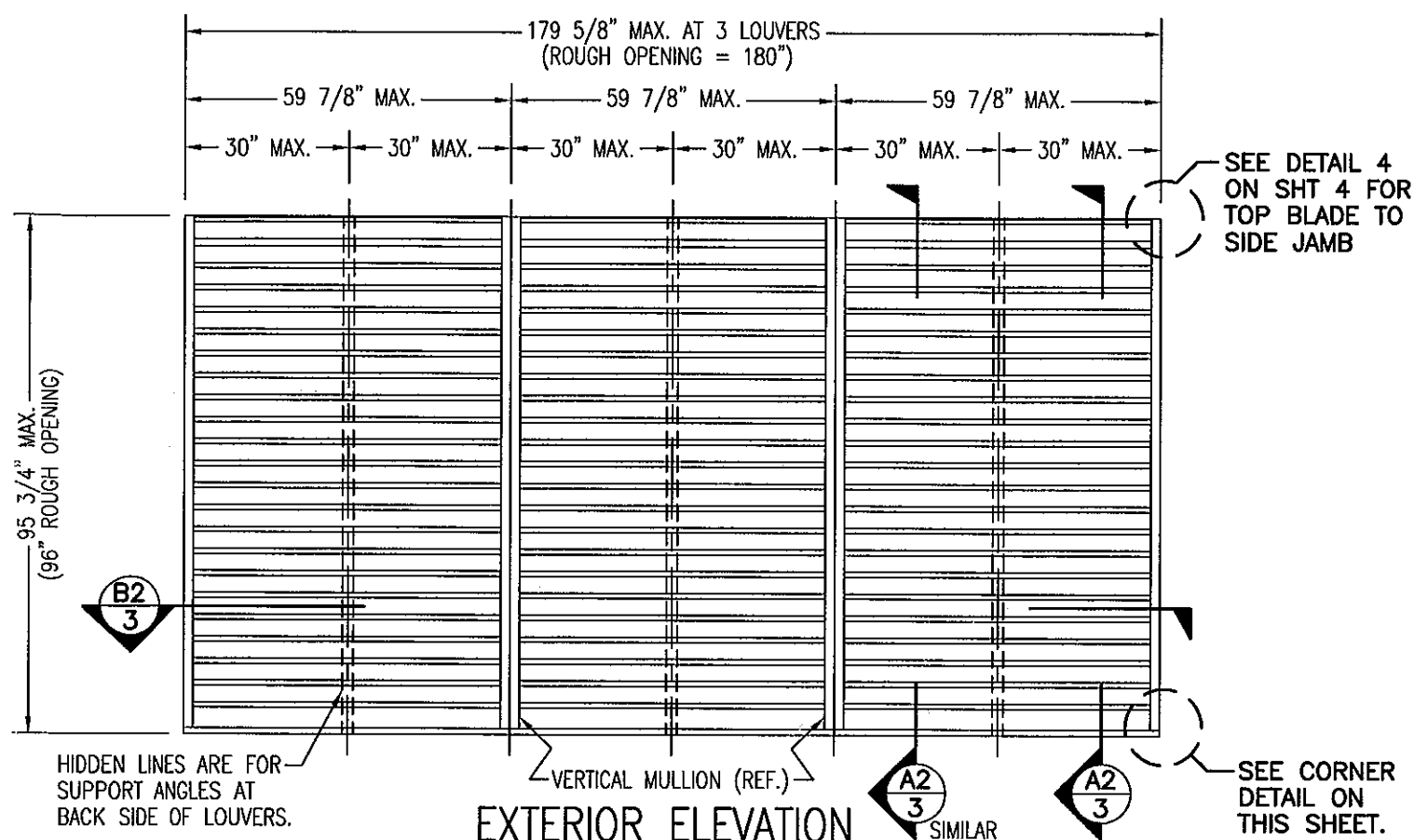
Approval Date: January 19, 2012



**EXTERIOR ELEVATION**  
**ARCHITECTURAL 6" LOUVER**

SCALE: 3/8"=1'-0"

NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.



**EXTERIOR ELEVATION**  
**NON-ARCHITECTURAL 6" LOUVER**

SCALE: 3/8"=1'-0"

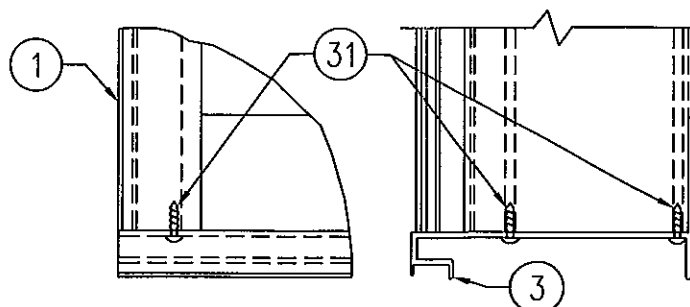
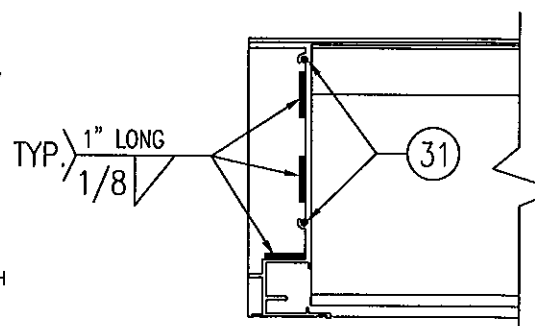
NOTE: THIS LOUVER SYSTEM MAY CONSIST OF AN UNLIMITED NUMBER OF SECTIONS PROVIDING EACH SECTION DOES NOT EXCEED 59 7/8" X 95 3/4" IN SIZE.

MAX. ALLOWABLE DESIGN WIND PRESSURE	
POSITIVE	NEGATIVE
150 PSF	150 PSF

NOTE: SEE LOAD TABLE ON SHEET 7 FOR VARIATIONS OF PRESSURES WITH RESPECT TO PANEL WIDTH & CLIP SPACING.

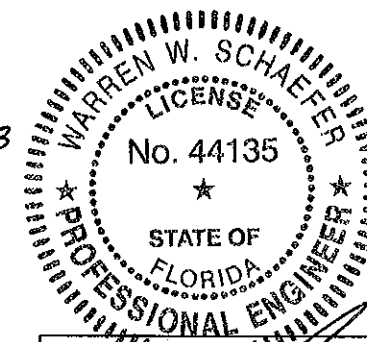
### GENERAL NOTES:

1. THESE LOUVER SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S)".
2. OPENINGS MUST BE PROPERLY DESIGNED & CONSTRUCTED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. SPECIFIED ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH THE FLORIDA BUILDING CODE PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT LOUVERS.
5. THESE LOUVER SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE FLORIDA BUILDING CODE (FBC) INCLUDING HIGH VELOCITY HURRICANE ZONES (HVHZ).
6. ALL ANCHORS SECURING LOUVER FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
7. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND GOVERNING WIND VELOCITY. FOR WIND LOAD CALCULATIONS IN ACCORDANCE WITH THE FLORIDA BUILDING CODE, A DIRECTIONALITY FACTOR OF  $K_d = 0.85$  MAY BE APPLIED PER THE ASCE 7 STANDARD.
8. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR  $C_d = 1.6$  WAS USED FOR WOOD SCREW ANALYSIS ONLY.
9. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER DISSIMILAR MATERIALS SHALL MEET THE REQUIREMENTS OF FLORIDA BUILDING CODE CHAPTER 20.
10. MAXIMUM ALLOWABLE INDIVIDUAL PANEL SIZE = 59 7/8" X 95 3/4".
11. MAXIMUM ASSEMBLY SIZE = UNLIMITED WIDTH; UP TO 95 3/4" HEIGHT.
12. ASSEMBLIES/SECTIONS MAY BE STACKED VERTICALLY PROVIDING A STRUCTURAL SUPPORT IS DESIGNED & INSTALLED BY OTHERS TO SUPPORT ALL LOADS TRANSFERRED FROM THE LOUVER ASSEMBLY.
13. MAXIMUM UNSUPPORTED BLADE LENGTH SHALL NOT EXCEED 30"
14. ALL FASTENERS SHALL BE PLATED STEEL OR 304 STAINLESS STEEL.
15. SPECIFIED SUBSTRATES REQUIREMENTS:  
CONCRETE: MIN. 3000 PSI  
MASONRY: MIN. C90 CMU  
WOOD: MIN. GRADE 2;  $G = 0.55$   
STEEL: MIN. 1/8" THICK A36 (36 KSI)
16. THIS SYSTEM HAS NOT BEEN TESTED FOR WATER INFILTRATION RESISTANCE & IS NOT A WATER RESISTANT SYSTEM.



**SILL CORNER DETAIL**

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1117.06  
Expiration Date 07/27/2013  
By [Signature]  
Miami/Dade Product Control

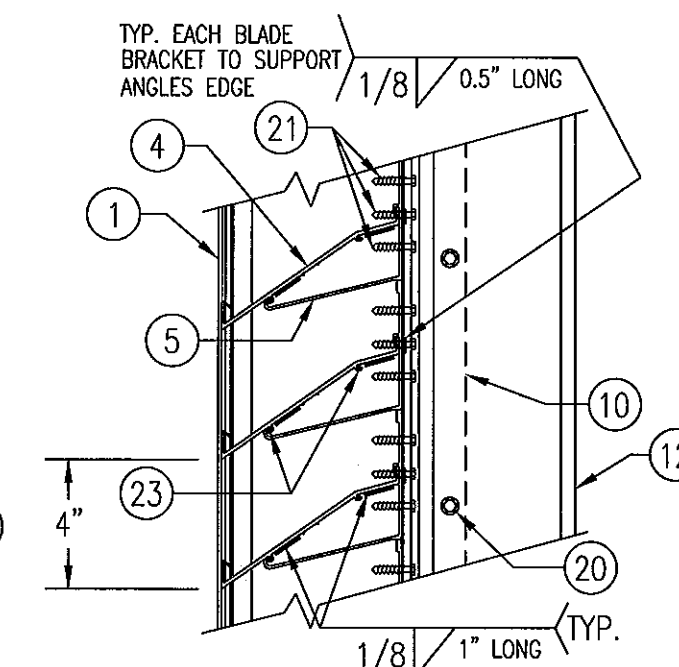
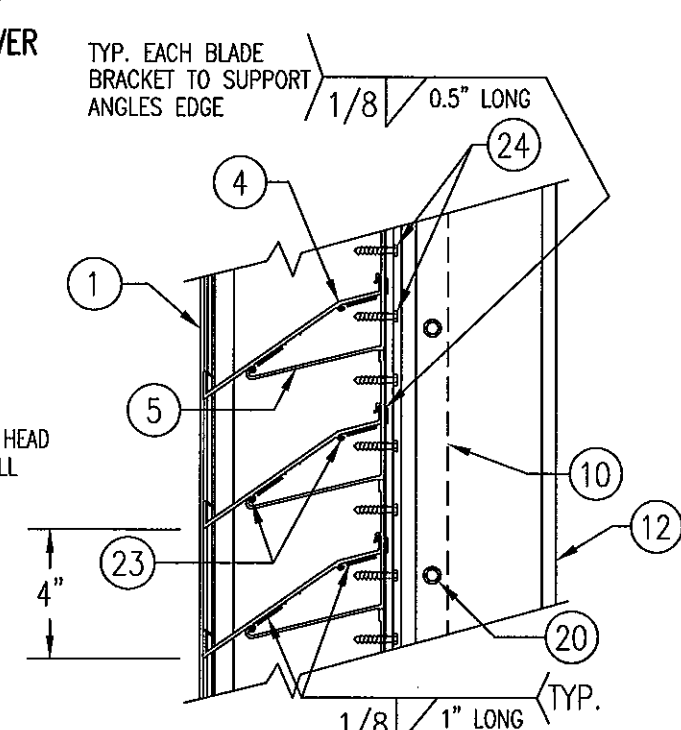
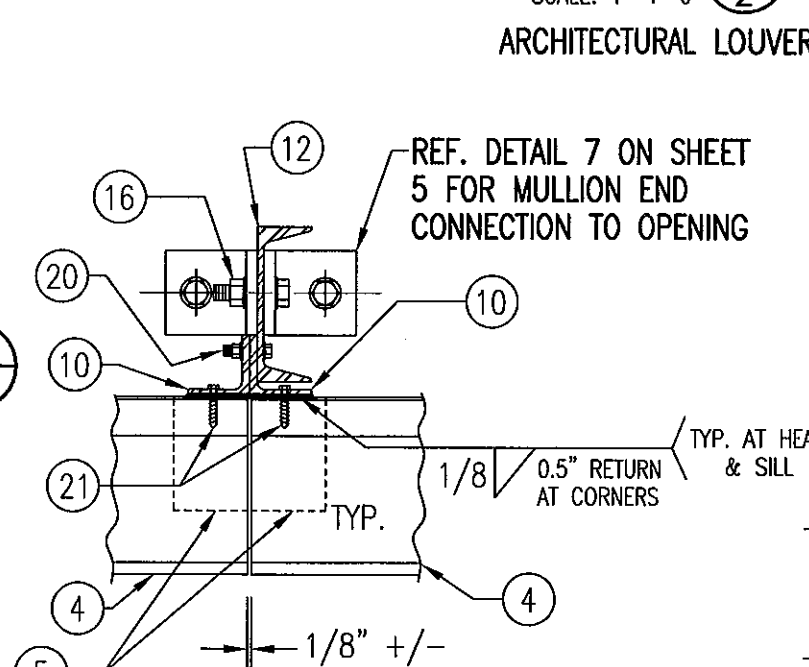
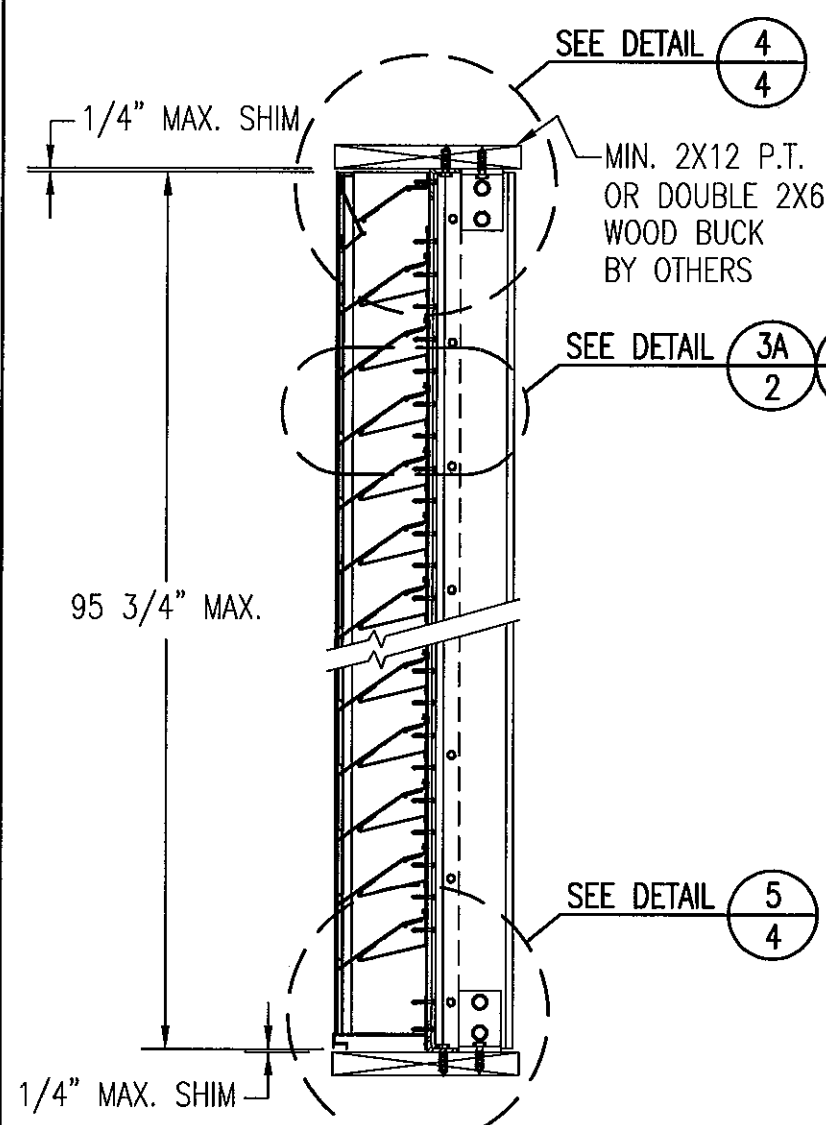
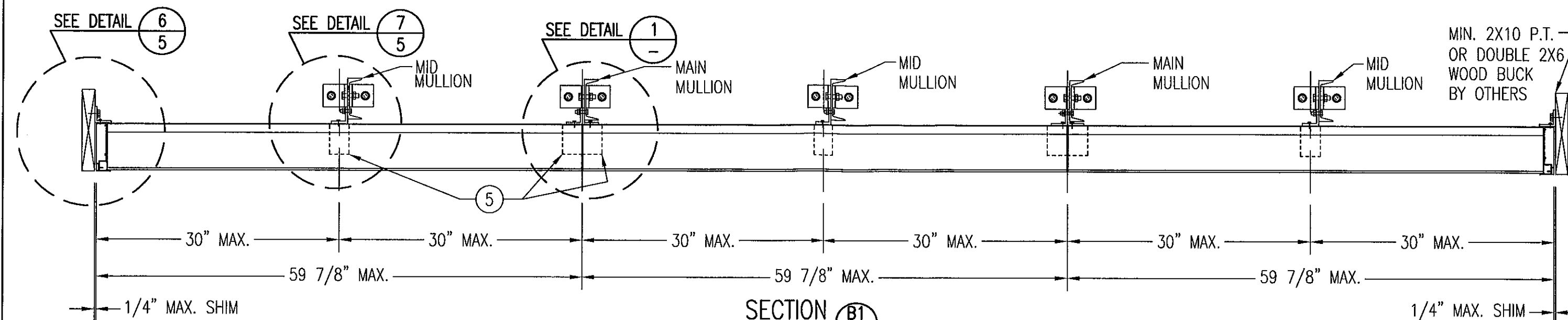


NOV 08 2011  
WARREN W. SCHAEFER, P.E.  
STRUCTURAL ENGINEER  
P.E. No. 44135  
W. W. SCHAEFER ENGINEERING  
& CONSULTING, P.A. (CA 6809)  
STRUCTURAL CONSULTING ENGINEERS  
7480 150TH COURT NORTH  
PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

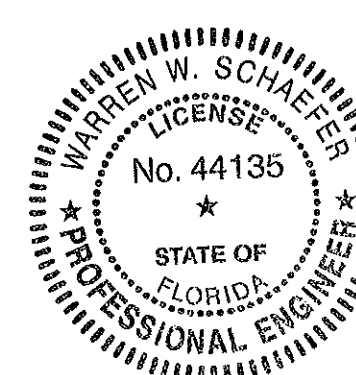
THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

REVISION	DATE	DRN	CK
C1 UPDATE TO CURENT STANDARDS	11/08/11	WRM	
B1 UPDATE FOR CODE COMPLIANCE	04/17/08	WRM	
A1 UPDATE GENERAL NOTES TO 2004 FBC COMPLIANT	08/23/05	WWS	

<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc. 450 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286			
<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER ELEVATIONS & NOTES			
CKD.BY	APPD.BY W.W.S.	SHEET: 1 of 7	
DRN.BY W.W.S.	DWG. NO.	35972-6	
DATE 06-16-00			REV. C



PRODUCT REVISED  
as complying with the Florida  
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Acceptance No. 11-1117.06  
Expiration Date 07/27/2013  
By *[Signature]*  
Miami Dade Product Control



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REVISION		DATE	DRN	CK	APPD
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<b>EA-32 TEST LOUVER</b> <b>ARCHITECTURAL LOUVER</b> <b>SECTIONS &amp; DETAILS</b>					
CKD.BY		APPD.BY W.W.S.		SHEET: 2 of 7	
DRN.BY W.W.S.		DWG. NO.		REV.	
DATE 06-16-00		35972-6		C	

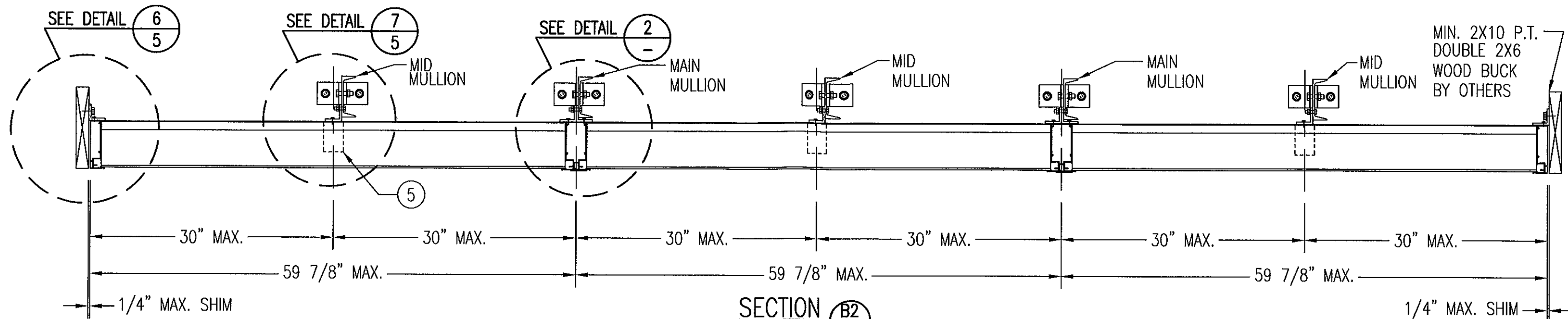
SECTION A1  
SCALE: 1"=1'-0"  
ARCHITECTURAL LOUVER

SECTION B1  
SCALE: 1"=1'-0"  
ARCHITECTURAL LOUVER

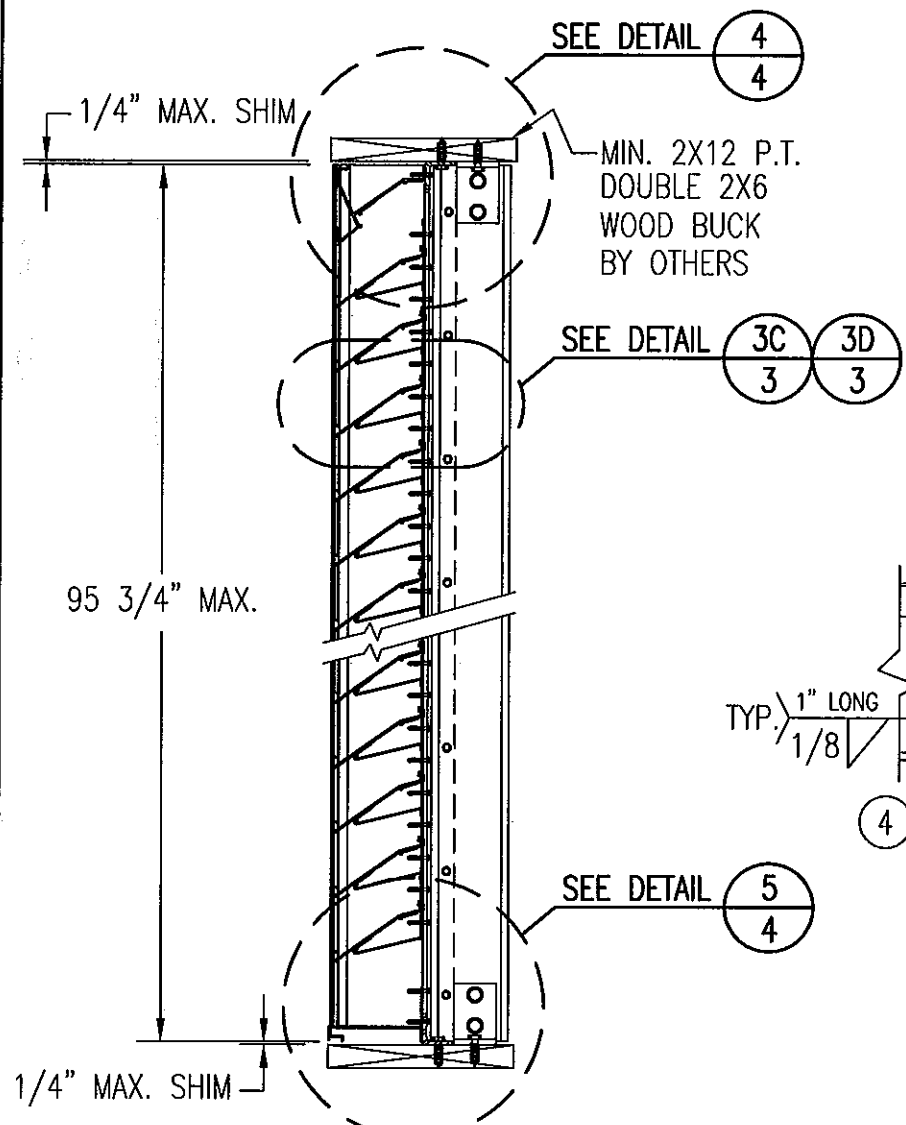
DETAIL 1  
SCALE: 2"=1'-0"  
ARCHITECTURAL LOUVER

DETAIL 3A  
SCALE: 2"=1'-0"  
TYP. AT ALL MID SPAN MULLIONS

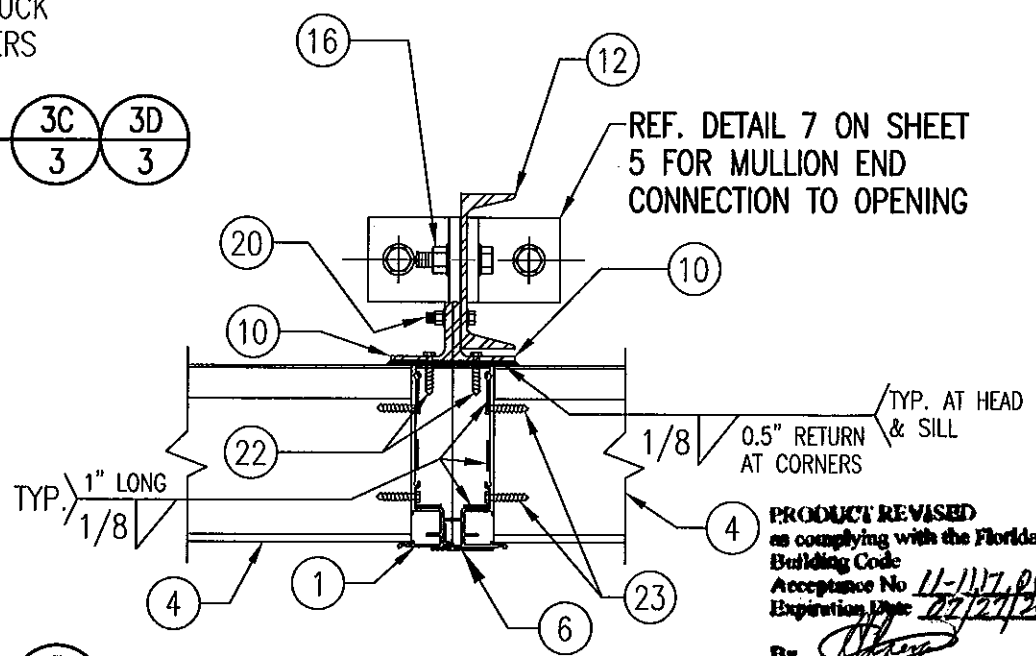
DETAIL 3B  
SCALE: 2"=1'-0"  
TYP. AT ALL MAIN ARCHITECTURAL MULLIONS



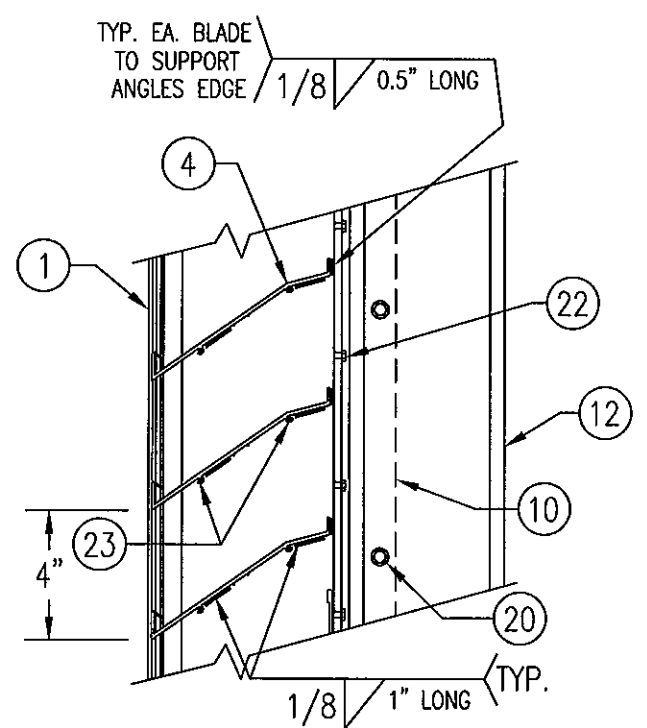
**SECTION B2**  
SCALE: 1"=1'-0"  
**NON-ARCHITECTURAL LOUVER**



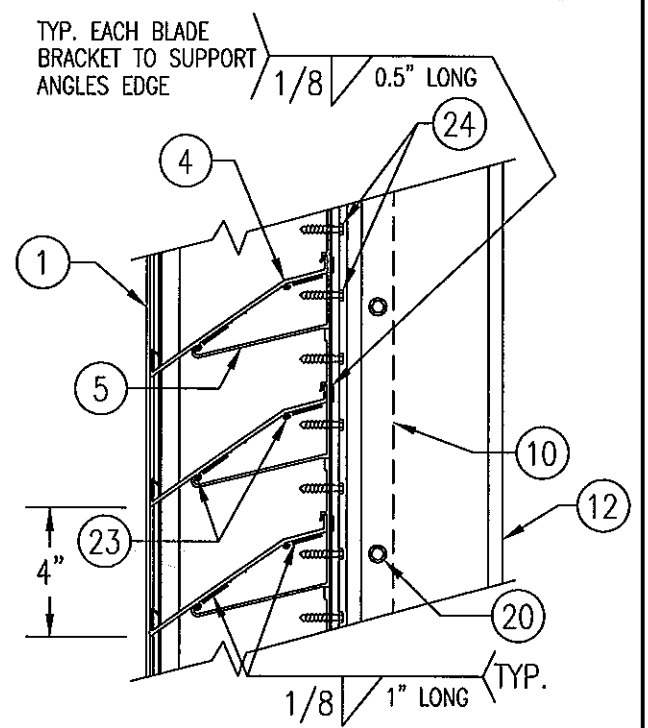
**SECTION A2**  
SCALE: 1"=1'-0"  
**NON-ARCHITECTURAL LOUVER**



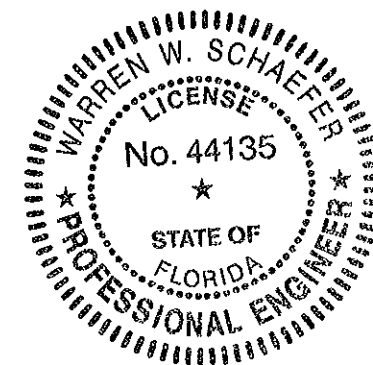
**DETAIL 2**  
SCALE: 2"=1'-0"  
**NON-ARCHITECTURAL LOUVER**  
NOTE: SIDE JAMBS ARE ADDITIONALLY FASTENED TO THE SILL WITH 2 NO. 8 X 3/4" SMS THROUGH SILL & INTO JAMB SPLINES.



**DETAIL 3C**  
SCALE: 2"=1'-0"  
TYP. AT ALL MAIN NON-ARCHITECTURAL MULLIONS

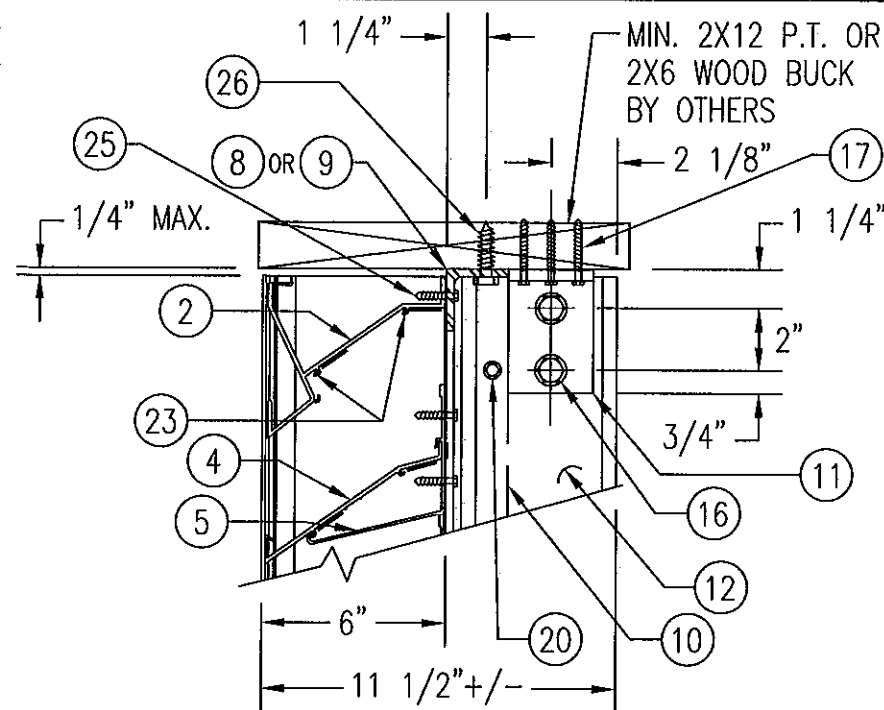


**DETAIL 3D**  
SCALE: 2"=1'-0"  
TYP. AT ALL MID SPAN MULLIONS



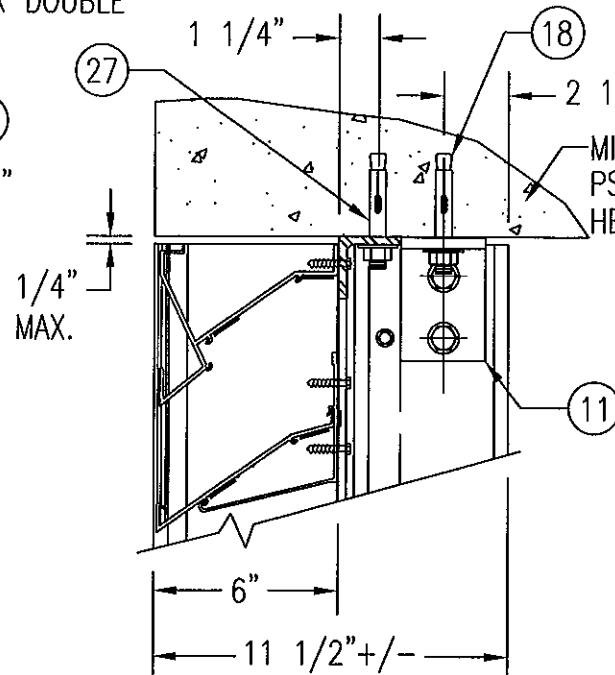
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WARREN W. SCHAEFER, P.E.  
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P.E. No. 44135  
**W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (CA 6809)**  
STRUCTURAL CONSULTING ENGINEERS  
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PALM BEACH GARDENS, FL 33418  
PHONE: 561-744-3424

REVISION		DATE	DRN	CK	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc. 450 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286					
<b>EA-32 TEST LOUVER</b> <b>NON-ARCHITECTURAL LOUVER</b> <b>SECTIONS &amp; DETAILS</b>					
CKD.BY		APPD.BY W.W.S.		SHEET: 3 of 7	
DRN.BY W.W.S.		DWG. NO.		REV.	
DATE 06-16-00		35972-6		C	



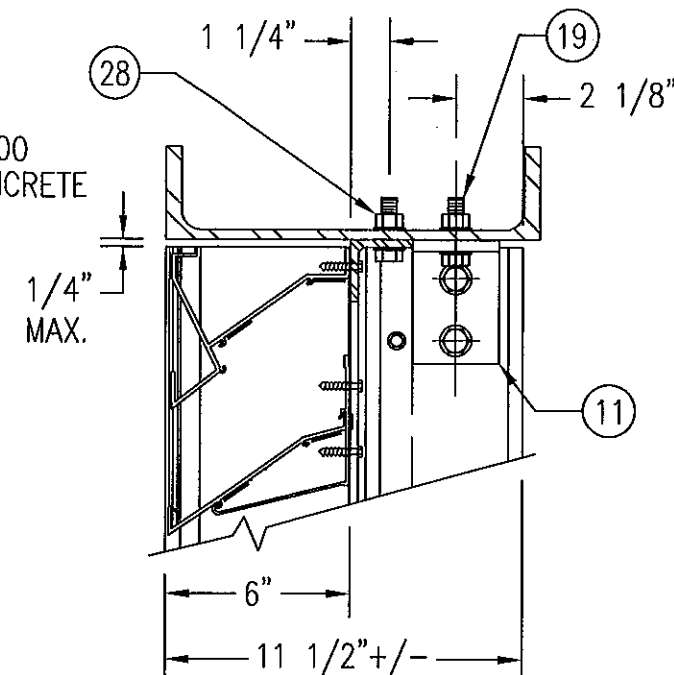
**WOOD FRAMED OPENING**

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS



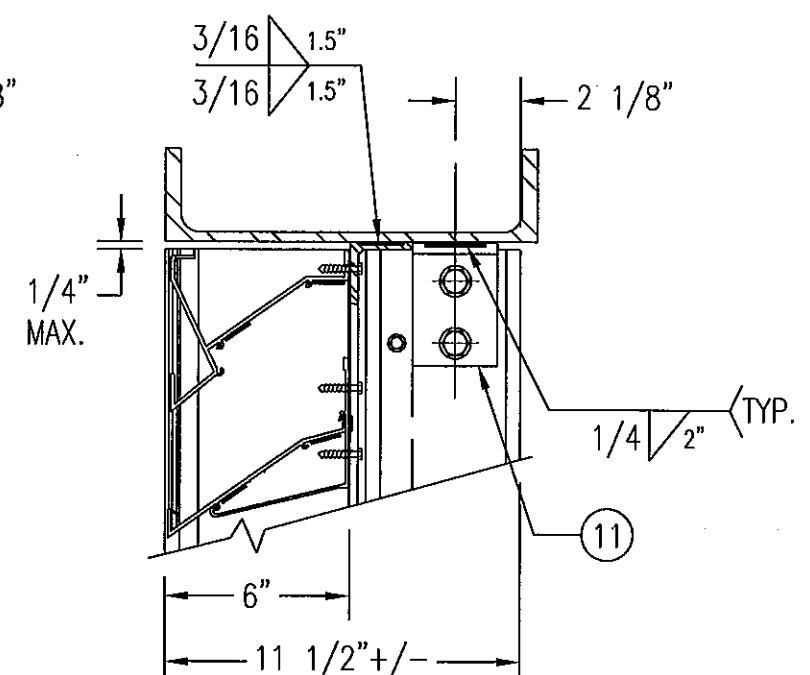
**CONCRETE HEAD**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN  
(MASONRY ACCEPTABLE AT SIDES ONLY  
AND MAY NOT BE USED AT HEAD OR SILL)



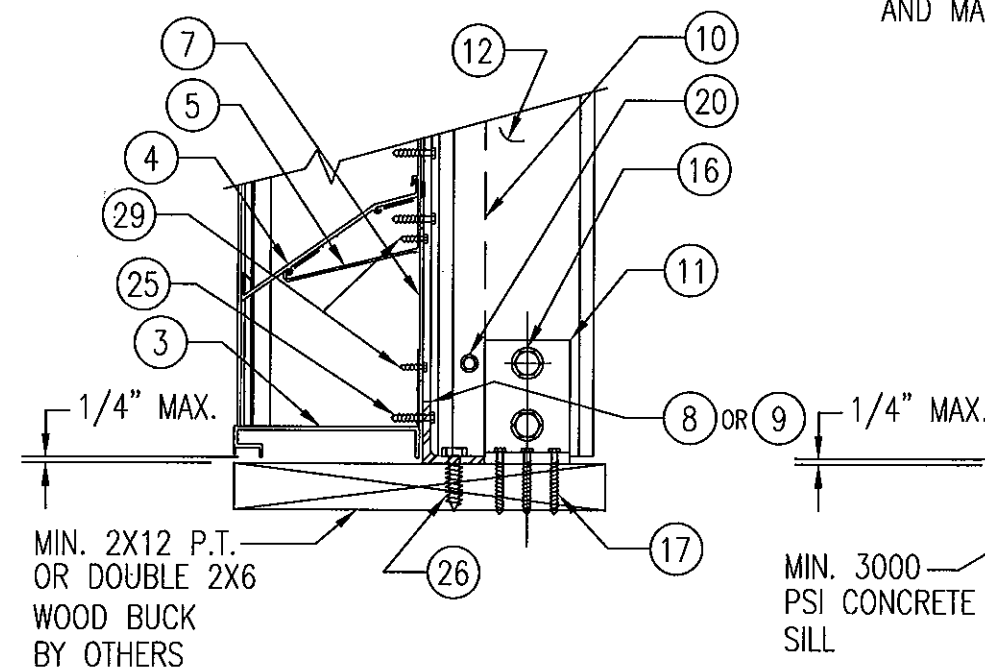
**STEEL FRAME OPENING (BOLTED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



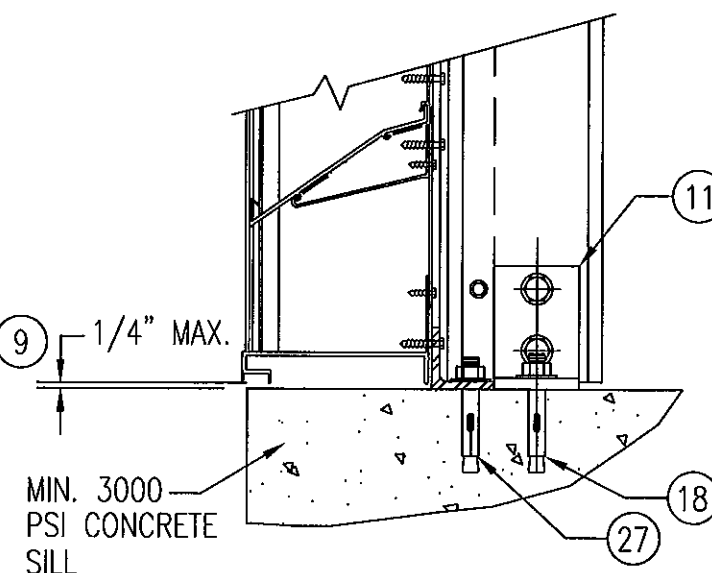
**STEEL FRAME OPENING (WELDED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN



**WOOD FRAMED OPENING**

SEE "DETAIL 3A & 3B" FOR LOUVER BLADE DETAILS

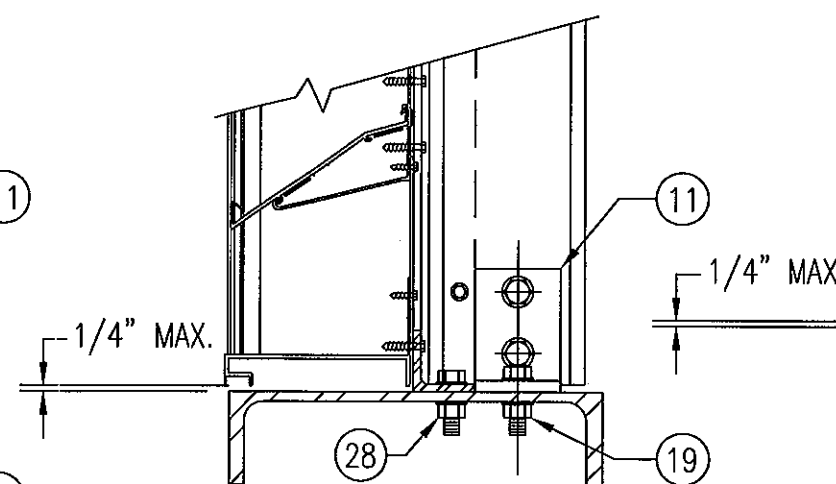


**CONCRETE SILL**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN  
(MASONRY ACCEPTABLE AT SIDES ONLY  
AND MAY NOT BE USED AT HEAD OR SILL)

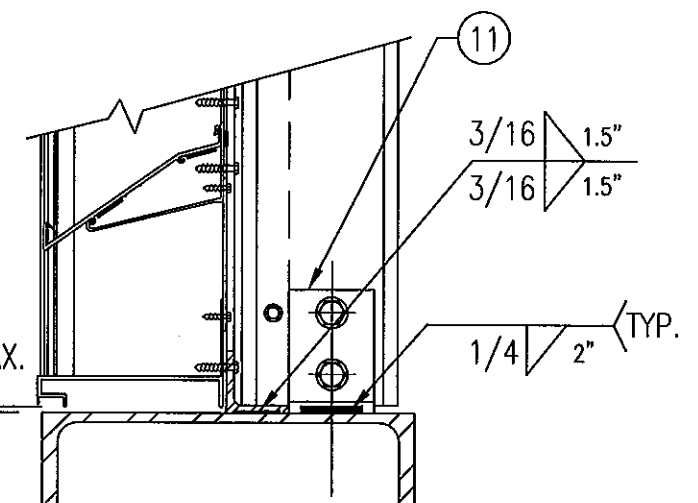
**DETAIL 5**  
SCALE: 2"=1'-0"

**DETAIL 4**  
SCALE: 2"=1'-0"



**STEEL FRAME OPENING (BOLTED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

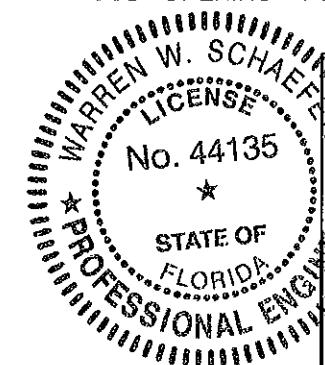


**STEEL FRAME OPENING (WELDED)**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

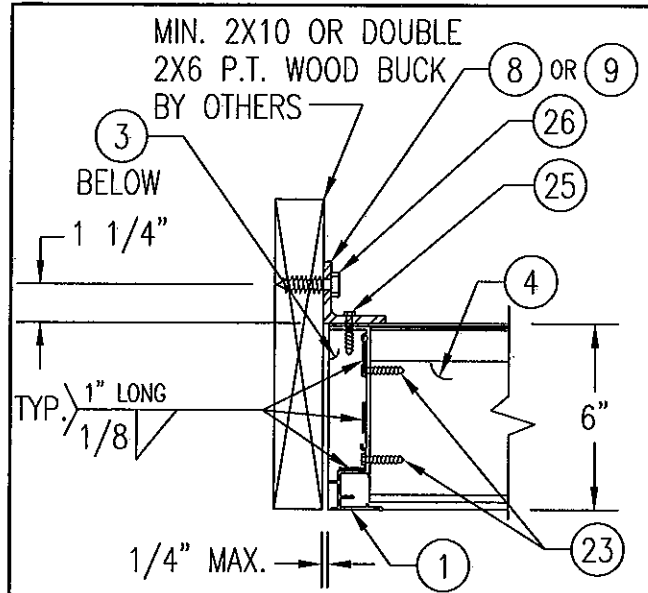
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Expiration Date 2/27/2013  
By *[Signature]*  
Miami Dade Product Control

MASONRY MAY ONLY BE USED AT SIDES  
OF LOUVER PANELS & MAY NOT BE USED  
AT THE HEAD OR SILL.

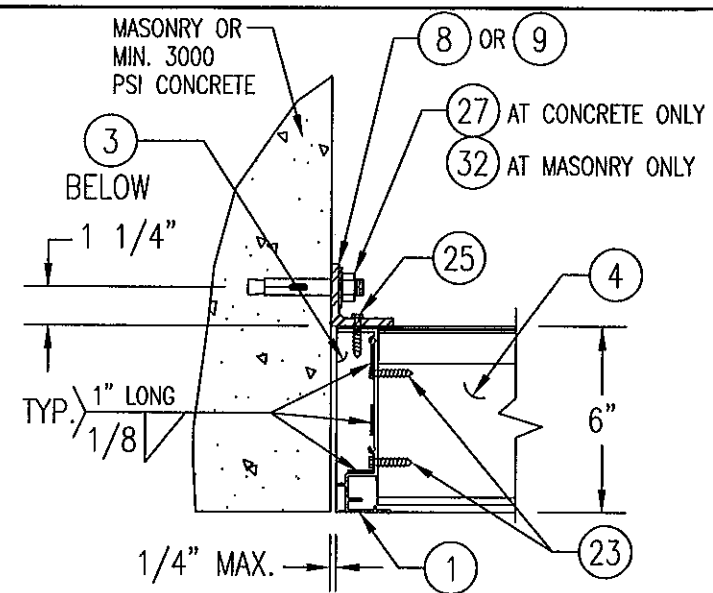


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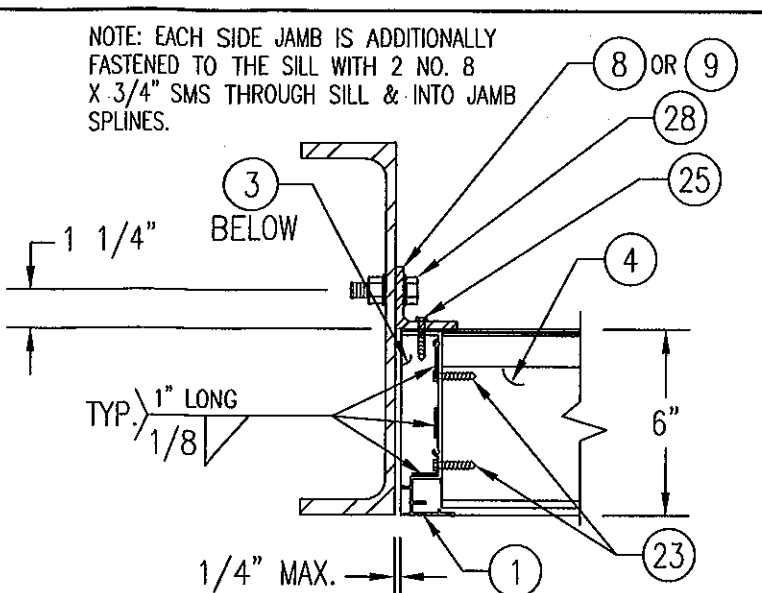
REVISION		DATE	DRN	CK	APPD
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<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER DETAILS					
CKD.BY	APPD.BY	W.W.S.	SHEET: 4 of 7		
DRN.BY	W.W.S.	DWG. NO.	35972-6		
DATE	06-16-00			REV.	C



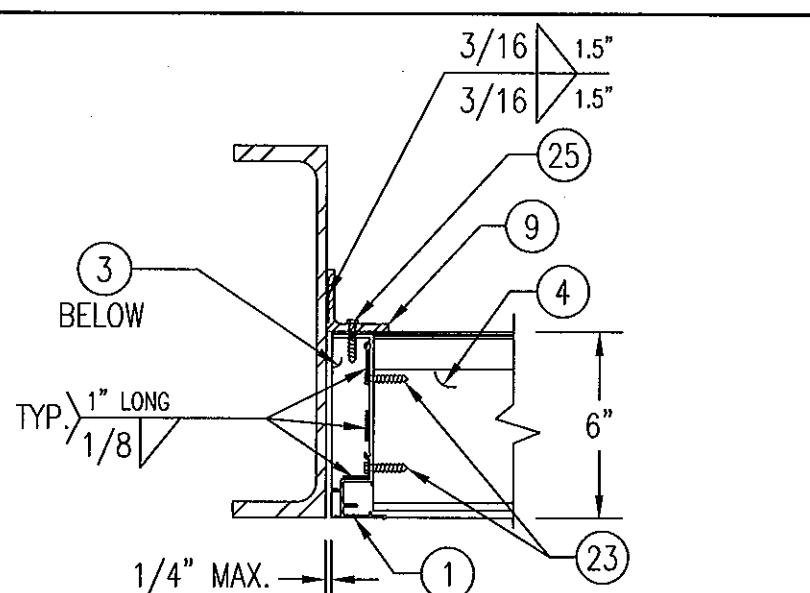
**WOOD FRAMED OPENING**



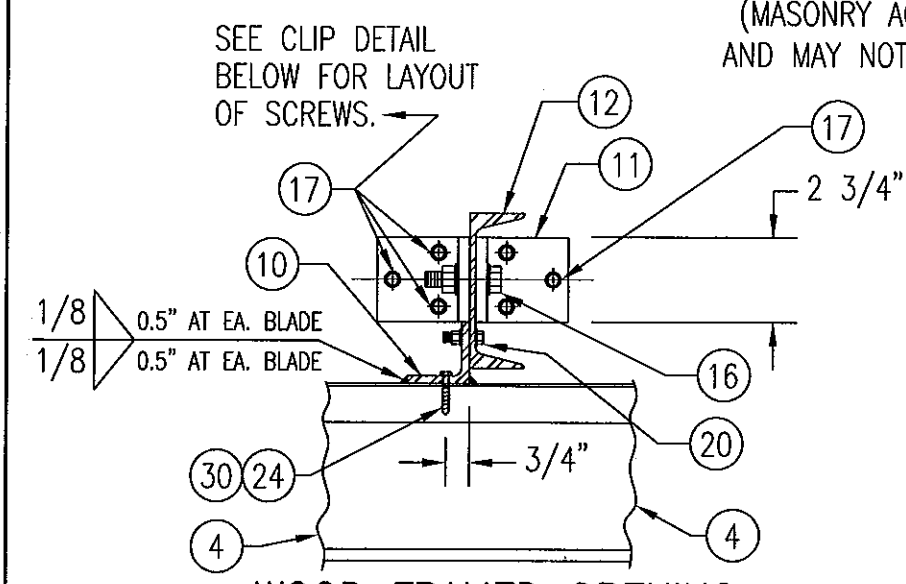
**CONCRETE/MASONRY OPENING**



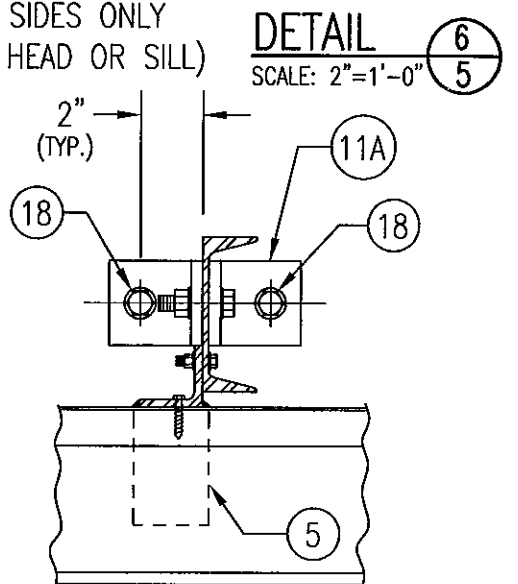
**STEEL FRAME OPENING (BOLTED)**



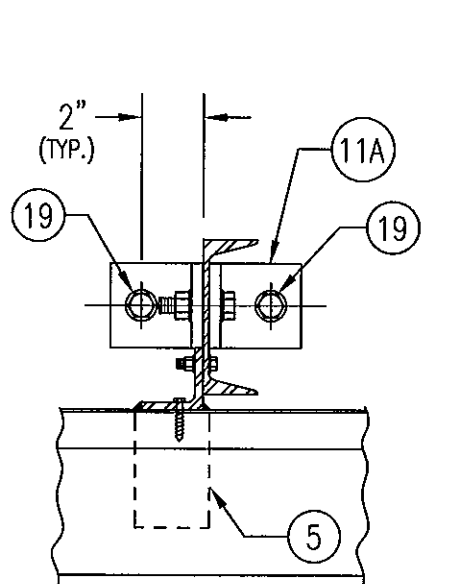
**STEEL FRAME OPENING (WELDED)**



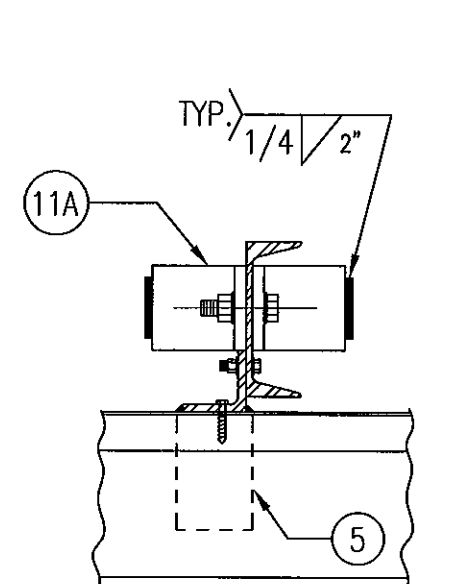
**WOOD FRAMED OPENING**



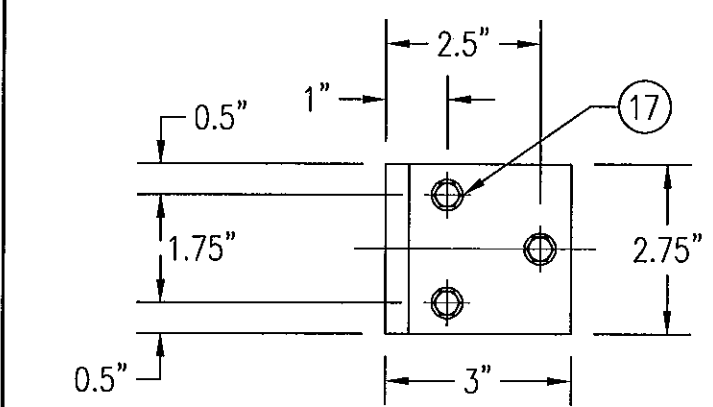
**CONCRETE HEAD & SILL**



**STEEL FRAME OPENING (BOLTED)**



**STEEL FRAME OPENING (WELDED)**



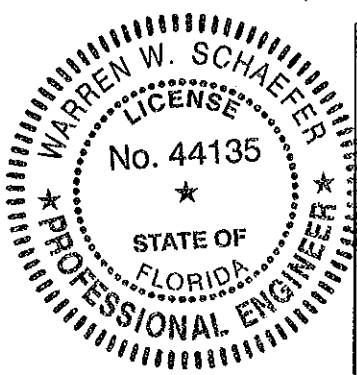
**MULLION CLIP DETAIL @ WOOD INSTALLATION**

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN  
(MASONRY ACCEPTABLE AT SIDES ONLY  
AND MAY NOT BE USED AT HEAD OR SILL)

SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

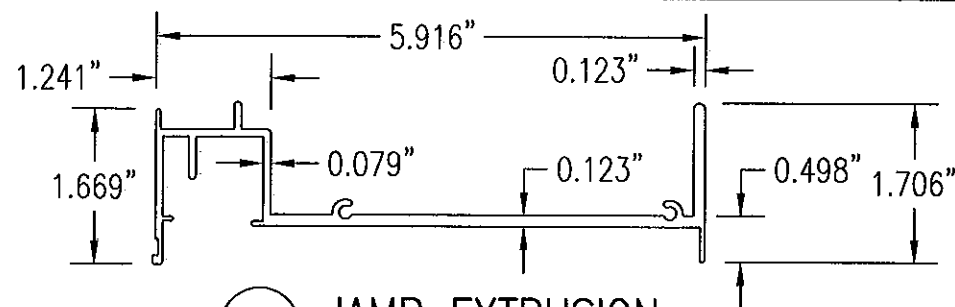
SEE "WOOD OPENING" FOR DETAIL NOT SHOWN

MASONRY MAY ONLY BE USED AT SIDES  
OF LOUVER PANELS & MAY NOT BE USED  
AT THE HEAD OR SILL.

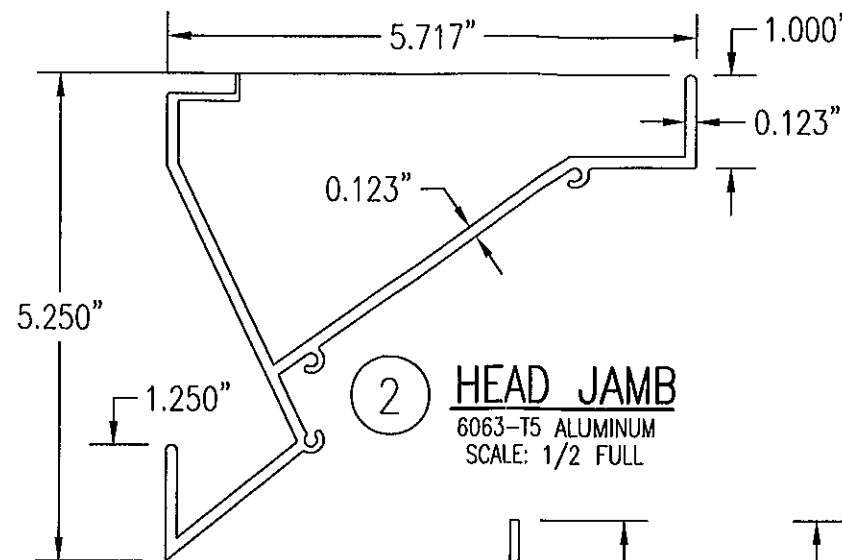


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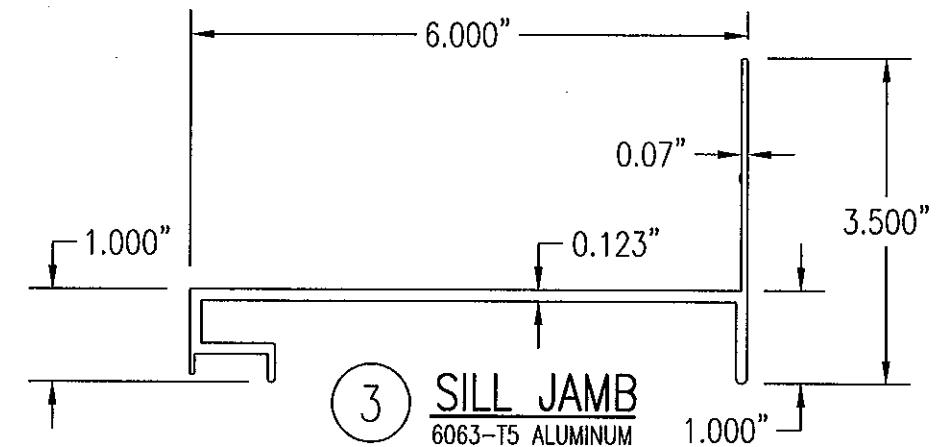
REVISION		DATE	DRN	CK	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc. 450 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286					
<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER DETAILS					
CKD.BY	APPD.BY	W.W.S.	SHEET: 5 of 7		
DRN.BY	W.W.S.	DWG. NO.	35972-6		
DATE	06-16-00		REV. C		



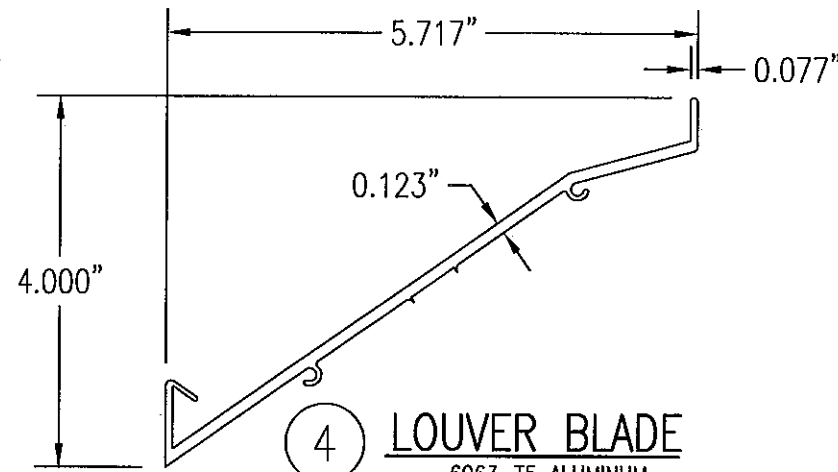
① **JAMB EXTRUSION**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



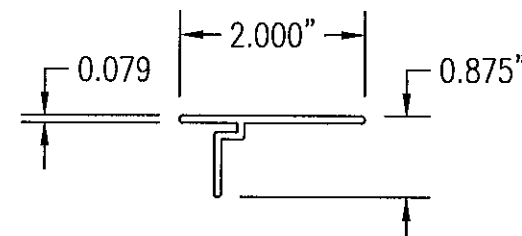
② **HEAD JAMB**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



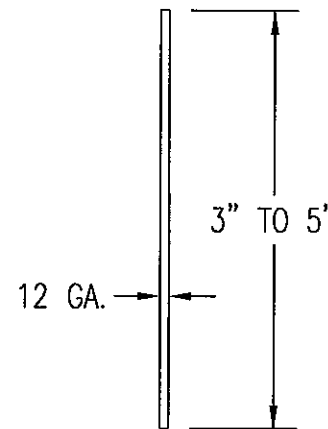
③ **SILL JAMB**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



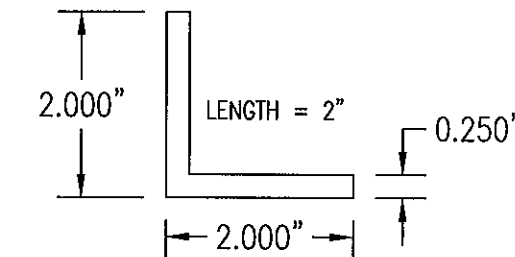
④ **LOUVER BLADE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



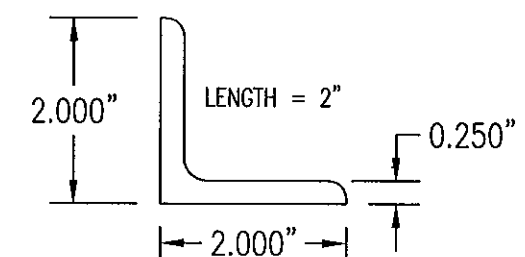
⑥ **MULLION CAP**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



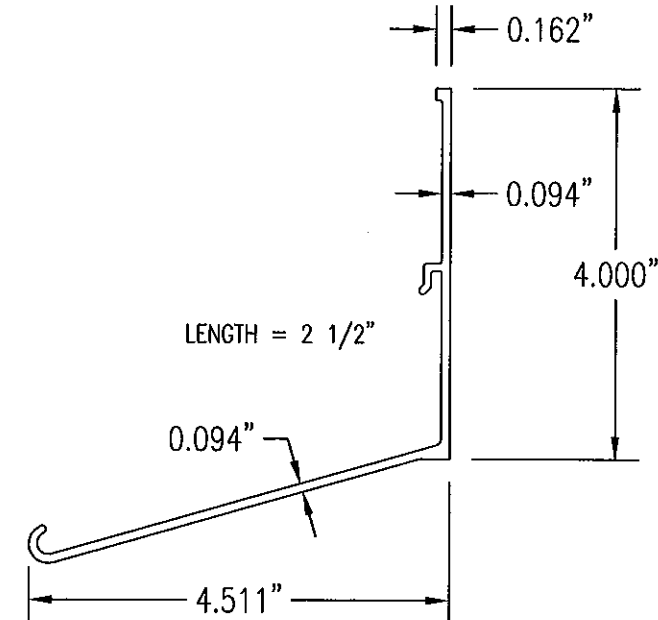
⑦ **SILL PLATE**  
3003/5005 ALUMINUM  
SCALE: 1/2 FULL



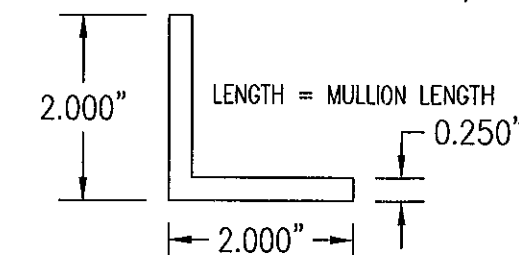
⑧ **CONNECTION ANGLE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



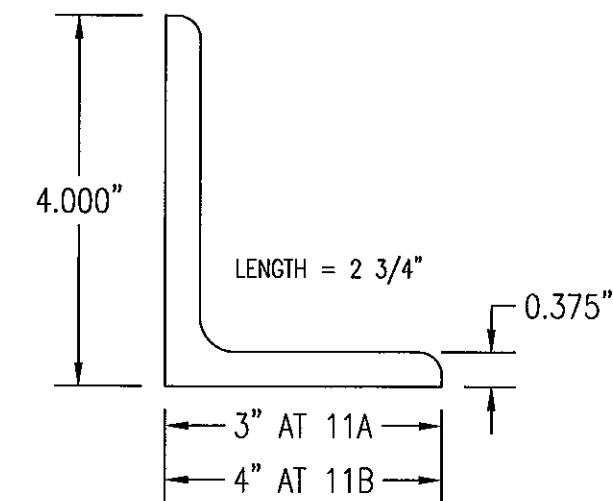
⑨ **CONNECTION ANGLE**  
A36 STEEL  
SCALE: 1/2 FULL



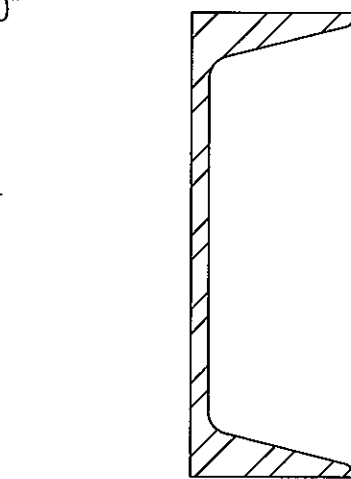
⑤ **BLADE SUPPORT BRACKET**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL



⑩ **MULLION ANGLE**  
6063-T5 ALUMINUM  
SCALE: 1/2 FULL

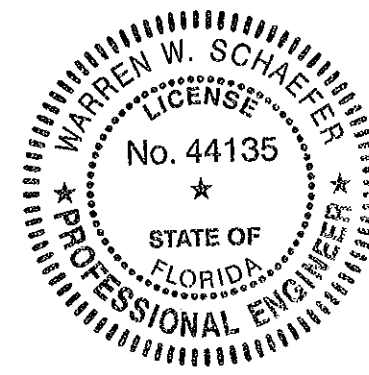


⑪A ⑪B **MULLION END CONNECTION ANGLE**  
A36 STEEL  
SCALE: 1/2 FULL



⑫ **C5X6.7 MULLION**  
A36 STEEL  
SCALE: 1/2 FULL

PRODUCT REVISED  
as complying with the Florida  
Building Code  
Acceptance No. 11-1117.06  
Expiration Date 07/27/2013  
By [Signature]  
Miami Dade Product Control



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REVISION		DATE	DRN	CK	APPD
<b>ARROW UNITED INDUSTRIES</b> A Division of Mestek, Inc. 450 RIVERSIDE DRIVE - P.O. BOX 69 WYALUSING, PA 18853 PHONE 570-746-1888; FAX 570-746-9286					
<b>EA-32 TEST LOUVER</b> ARCHITECTURAL & NON-ARCHITECTURAL LOUVER PARTS & EXTRUSIONS					
CKD.BY	APPD.BY	W.W.S.	SHEET: 6 of 7		
DRN.BY	W.W.S.	DWG. NO.	35972-6		
DATE	06-16-00	REV.	C		



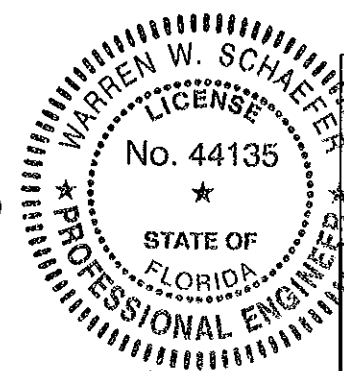
ALLOWABLE WIND PRESSURE VS. JAMB CLIP SPACING AND PANEL WIDTH			
PANEL WIDTH (INCHES)	CLIP SPACING (INCHES)	ALLOWABLE PRESSURE WITH MID SPAN MULLION (PSF)	ALLOWABLE PRESSURE WITHOUT MID SPAN MULLION (PSF)
16	8	150	150
	12	150	150
	16	150	140
	20	150	105
	24	150	70
20	8	150	150
	12	150	140
	16	150	112
	20	150	84
	24	150	56
24	8	150	140
	12	150	117
	16	150	93
	20	150	70
	24	125	47
28	8	150	82
	12	150	68
	16	150	54
	20	150	41
	24	107	27
30	8	150	62
	12	150	52
	16	150	41
	20	140	31
	24	93	-
36	8	150	-
	12	150	-
	16	150	-
	20	125	-
	24	83	-
42	8	150	-
	12	150	-
	16	142	-
	20	107	-
	24	71	-
48	8	150	-
	12	150	-
	16	125	-
	20	93	-
	24	62	-
54	8	150	-
	12	138	-
	16	111	-
	20	83	-
	24	55	-
60	8	150	-
	12	125	-
	16	100	-
	20	75	-
	24	50	-

MATERIAL LIST		
NO.	DESCRIPTION	NOTES/SPECIFICATIONS
PARTS/EXTRUSIONS		
1	SIDE JAMB FRAME/MULLION	6063-T5 ALUMINUM
2	HEAD FRAME	6063-T5 ALUMINUM
3	SILL FRAME	6063-T5 ALUMINUM
4	LOUVER BLADE	6063-T5 ALUMINUM
5	BLADE SUPPORT BRACKET (2 1/2" LONG)	6063-T5 ALUMINUM
6	MULLION CAP	6063-T5 ALUMINUM; FULL LENGTH OF MULLION JAMBS
7	SILL PLATE	3003/5005 ALUMINUM; FULL LENGTH OF PANEL SILL
8	L2X2X1/4 JAMB CONNECTION ANGLE 2" LONG	6063-T5 ALUMINUM; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON THIS SHEET
9	L2X2X1/4 OPTIONAL JAMB CONNECTION ANGLE 2" LONG	A36 STEEL; WITHIN 4" OF JAMB ENDS & SPACED PER LOAD TABLE ON THIS SHEET
10	L2X2X1/4 CONTINUOUS MULLION CONNECTION ANGLE	6063-T5 ALUMINUM; FULL LENGTH OF CHANNEL MULLION
11	L4X3X3/8 MULLION END CONNECTION ANGLE 2 3/4" LONG	A36 STEEL; 2 PER MULLION END
12	C5X6.7 MULLION	A36 STEEL; FULL HEIGHT OF PANELS
13	OPEN	
14	OPEN	
15	OPEN	
FASTENERS		
16	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 2 PER MULLION END
17	NO. 14 S.S. SMS SCREWS	3 PER MULLION END CLIP WITH MIN. 1 1/2" WOOD EMBED
18	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER CHANNEL END CONNECTION ANGLE INTO CONCRETE ONLY
19	1/2" X 2" A307 HEX HEAD PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER CHANNEL END CONNECTION ANGLE INTO STEEL FRAME
20	5/16-18 UNC X 1 1/2" HEX HEAD STEEL OR S/STL BOLT	WITH FLAT WASHER, LOCK WASHER & NUT; WITHIN 4" OF MULLION ENDS & MAX. 8" O.C.
21	NO. 14 X 1 1/4" HILTI TEK SCREW	3 AT EACH LOUVER BLADE SUPPORT BRACKET AT ARCHITECTURAL MAIN MULLIONS
22	NO. 14 X 1 1/4" HILTI TEK SCREW	WITHIN 1 1/4" OF MULLION ENDS & MAX. 4" O.C. INTO FRAME
23	NO. 8 X 3/4" SMS	2 PER EACH LOUVER BLADE END THROUGH JAMB & INTO BLADE SPLINES
24	NO. 14 X 1 1/4" HILTI TEK SCREW	2 AT EACH LOUVER BLADE SUPPORT BRACKET AT ALL MIDSPAN MULLIONS
25	NO. 14 X 1 1/4" HILTI TEK SCREW	2 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE
26	1/2" X 2" LAG SCREW WITH FLAT WASHER	1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO WOOD FRAME
27	5/8" X 2 1/4" SLEEVE ANCHOR WITH FLAT WASHER	USA KINGPIN ANCHOR; 1 PER EACH HEAD, SILL & SIDE JAMB CONNECTION ANGLE INTO CONCRETE ONLY
28	1/2" X 2" HEX HEAD A307 PLATED STEEL OR S/STL BOLT	WITH FLAT WASHERS, LOCK WASHER & NUT; 1 PER EA. JAMB CONNECTION ANGLE INTO STEEL FRAME
29	NO. 8 X 3/4" SMS	2 SCREWS WITHIN 4" OF SILL PLATE ENDS & MAX. 12" O.C. (SILL PLATE TO SILL JAMB AND FIRST LOUVER BLADE)
30	NO. 14 X 1 1/4" HILTI TEK SCREW	1 AT EACH MULLION ANGLE INTO HEAD & SILL JAMB
31	NO. 8 X 3/4" SMS SCREWS	2 PER FRAME SILL CORNER THROUGH SILL & INTO JAMB SPLINES
32	3/8" X 1 7/8" SLEEVE ANCHOR WITH FLAT WASHER	RED HEAD DYNABOLT WITH MIN. 1 1/2" BLOCK/CONCRETE EMBED (1 PER FRAME SUPPORT CLIP)

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# PRESSURE TABLE NOTES:

1. WHEN THE PANEL WIDTH IS 30" OR LESS, NO MID SPAN MULLION IS REQUIRED PROVIDING COMPLIANCE WITH THE TABLE.
2. ALL PRESSURES IN THIS TABLE ARE FOR BOTH POSITIVE & NEGATIVE WIND PRESSURE.



NOV 08 2011

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<b>EA-32 TEST LOUVER</b> <b>ARCHITECTURAL &amp; NON-ARCHITECTURAL LOUVER</b> <b>MATERIAL LIST &amp; LOAD TABLE</b>					
CKD.BY	APPD.BY	W.W.S.	SHEET: 7 of 7		REV.
DRN.BY	W.W.S.	DWG. NO.	35972-6		C
DATE	06-16-00				